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FIG. 1

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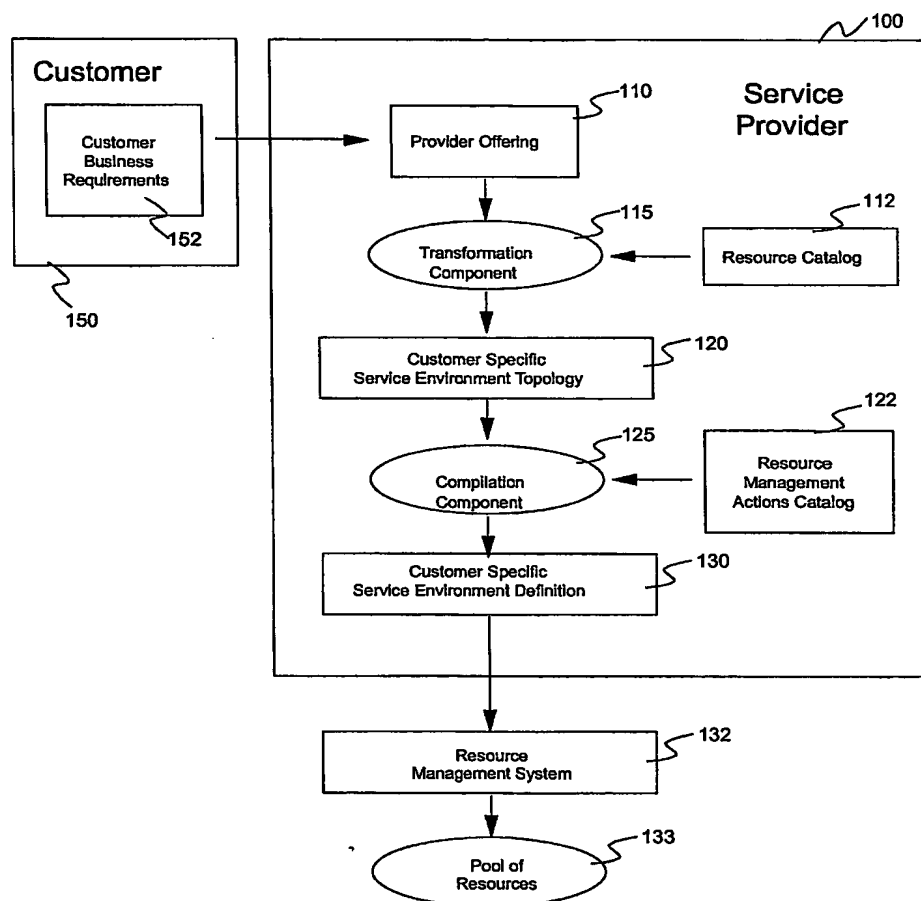
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The following example shows a sample extract of a XML file
which describes an aggregate resource type.

```
<?xml version="1.0" encoding="UTF-8"?>
<resourcetype>
        <identification>
                <name>SECURE WEBSERVER</name>
        </identification>
        <expansion>
                <node>
                        <identification>
                                <name>HTTP FIREWALL</name>
                        </identification>
                </node>
                <node>
                        <identification>
                                <name>STANDARD WEBSERVER</name>
                        </identification>
                </node>
        </expansion>
</resourcetype>
```

FIG. 2A

The following example shows a sample extract of a XML file
which describes a base resource type.

```
<?xml version="1.0" encoding="UTF-8"?>
<resourcetype>
        <identification>
                <name>HTTP FIREWALL</name>
        </identification>
        <partWSDL>
                <wsdlURL>http://localhost:8080/
                        FirewallServiceProvider.wsdl</wsdlURL>
        </partWSDL>
</resourcetype>
```
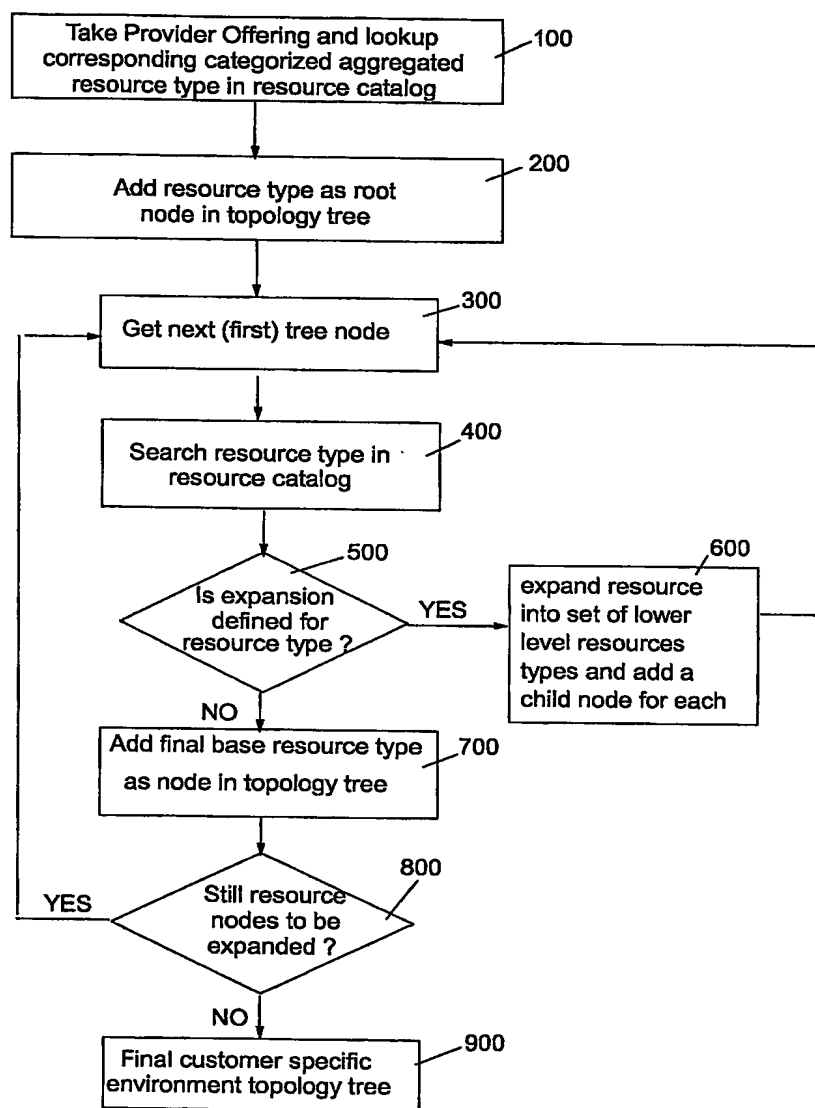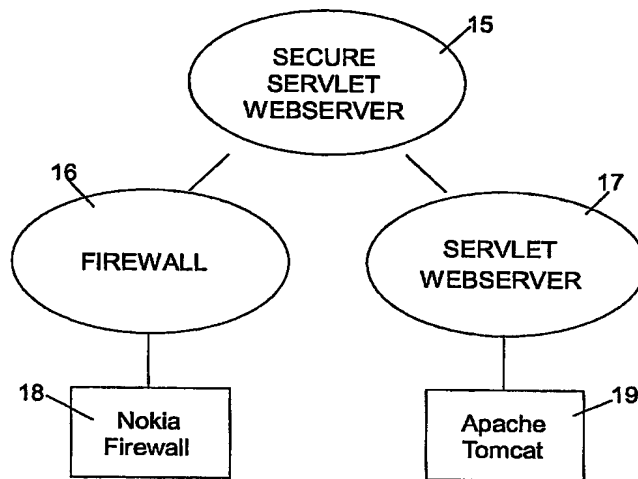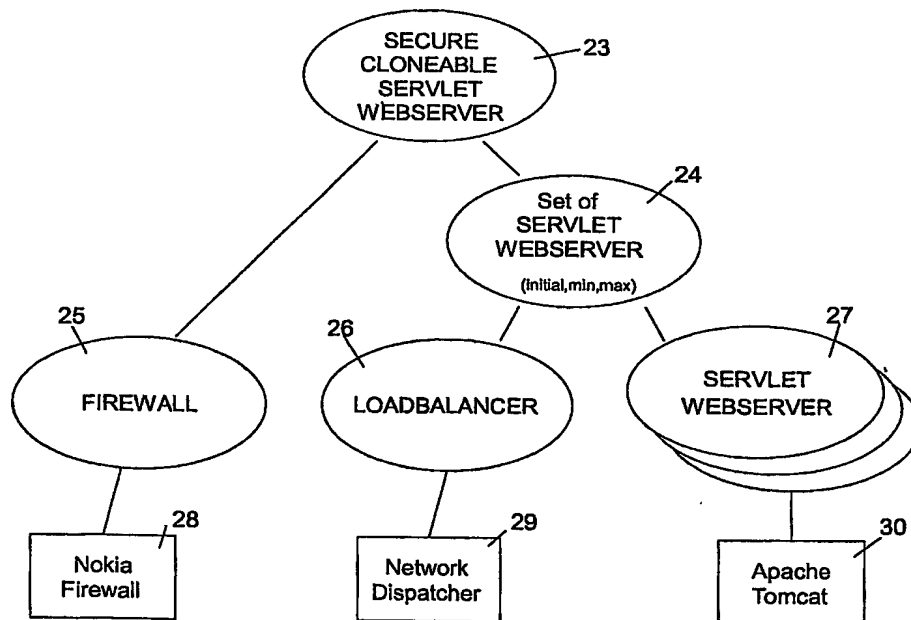
FIG. 2B

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FIG. 3

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FIG. 4

FIG. 5

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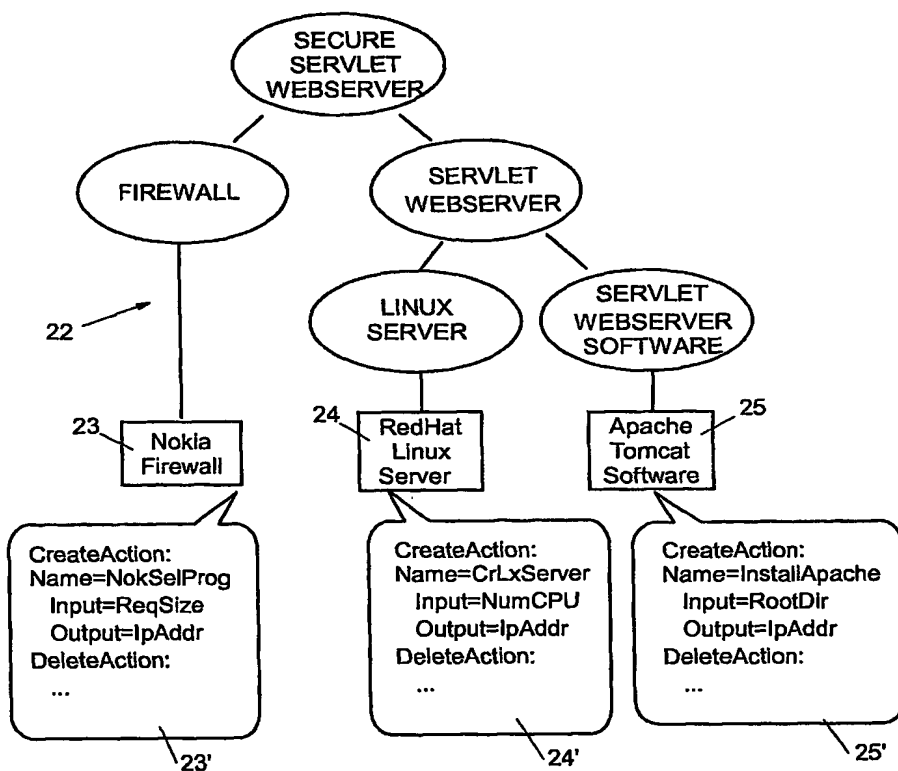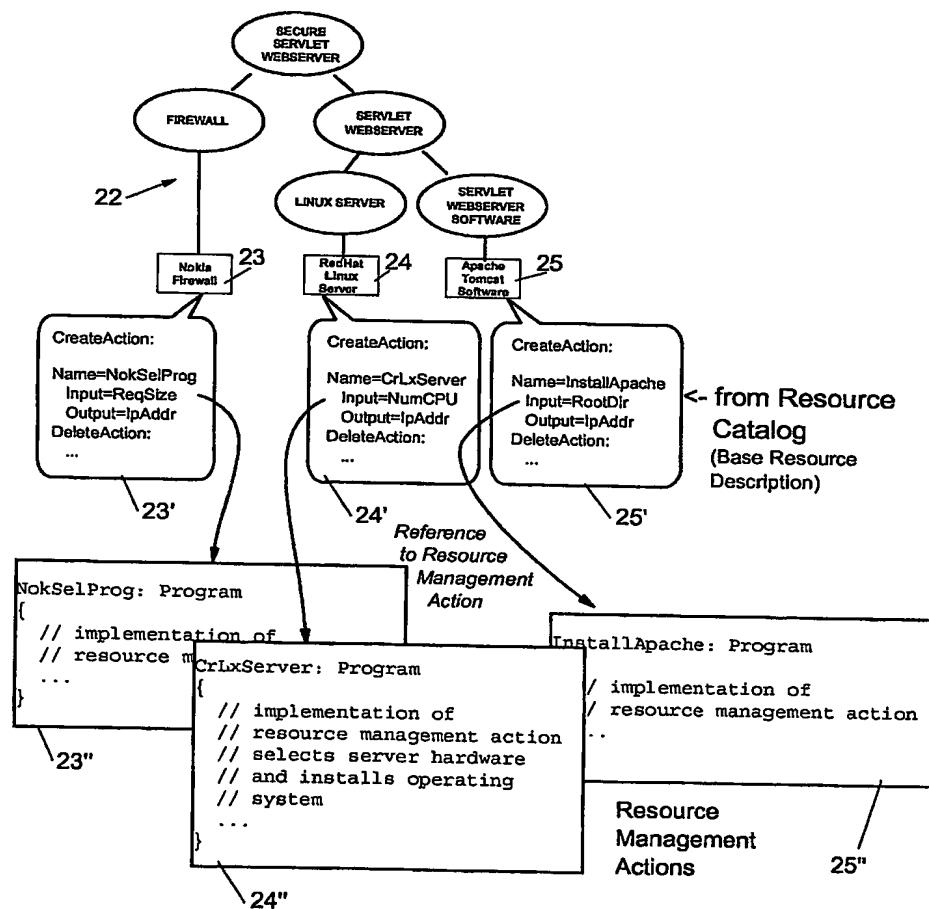
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FIG. 6A

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FIG. 6B

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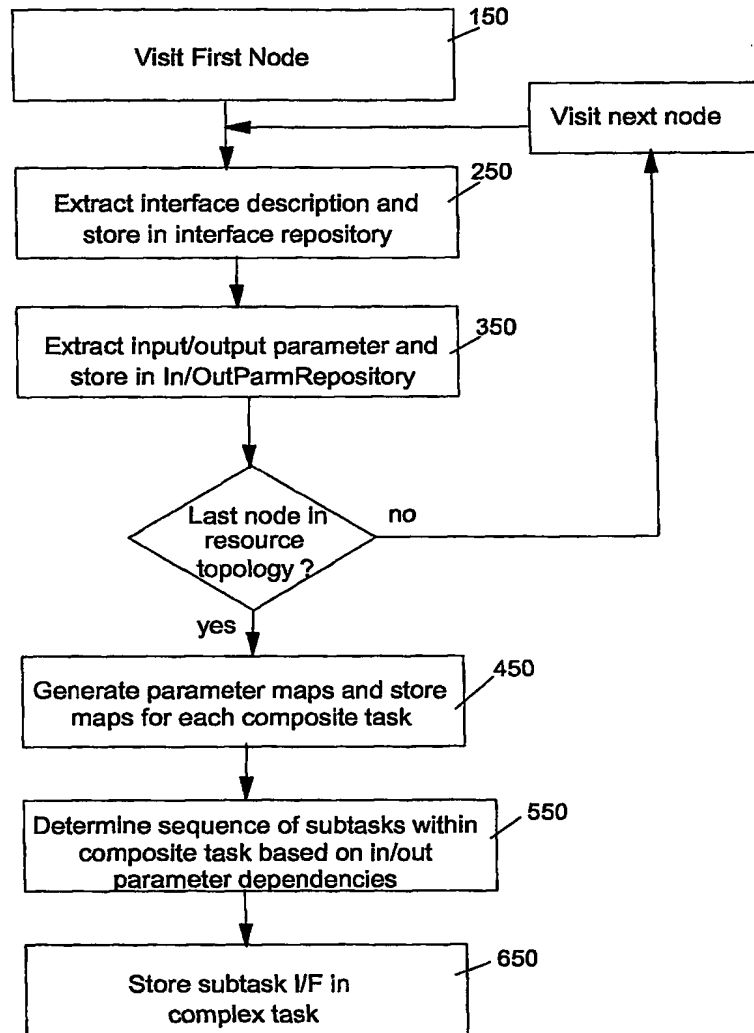
```
┌──────────────────────────────┐ 150
│       Visit First Node       │╱
└──────────────────────────────┘           ┌─────────────────────┐
                │                           │   Visit next node   │
                ▼                           └─────────────────────┘
┌──────────────────────────────┐ 250               ▲
│ Extract interface description and│╱                │
│    store in interface repository │                 │
└──────────────────────────────┘                    │
                │                                    │
                ▼                                    │
┌──────────────────────────────┐ 350               │
│ Extract input/output parameter and│╱               │
│    store in In/OutParmRepository  │                │
└──────────────────────────────┘                    │
                │                                    │
                ▼                                    │
            ╱‾‾‾‾‾‾‾‾╲         no                   │
          ╱  Last node in  ╲────────────────────────┘
          ╲    resource     ╱
            ╲ topology ? ╱
                ╲____╱
                │ yes
                ▼
┌──────────────────────────────┐ 450
│ Generate parameter maps and store│╱
│    maps for each composite task  │
└──────────────────────────────┘
                │
                ▼
┌──────────────────────────────┐ 550
│ Determine sequence of subtasks within│╱
│   composite task based on in/out     │
│     parameter dependencies           │
└──────────────────────────────┘
                │
                ▼
┌──────────────────────────────┐ 650
│      Store subtask I/F in     │╱
│        complex task           │
└──────────────────────────────┘
```

FIG. 7